





Form PTO-1449

Initials

No.

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Docket Number 529552000200 Application Number 09/905,212 Group Art Chair H6454 163 (formerly 256602000600)

Applicant

Venkatramnan RAMAKRISHMAN et al

Filing Date July 13, 2001

Mailing Date June 10, 2002

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
						•	
						÷	
			FOREIGN F	PATENT DOCUMENT	S		
Examiner	Ref.	Date	Document No.	Country	Class	Subclass	Translation

YES NO

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
Allard, P. et al. (2000). "Another Piece of the Ribosome: Solution Structure of S16 and I the 30S Subunit," Structure 8(8): 875-882.		Allard, P. et al. (2000). "Another Piece of the Ribosome: Solution Structure of S16 and Its Location in the 30S Subunit," <i>Structure</i> 8(8): 875-882.
	2.	Blundell, T. L. et al. (1976). <u>Protein Crystallography</u> . Academic Press: New York, NY., and Johnson, L. N., eds. pp. ix-xiv (Table of Contents Only).
	3.	Brodersen, D.E. et al. (2000). "The Structural Basis for the Action of the Antibiotics Tetracycline, Pactamycin and Hygromycin B on the 30S Ribosomal Subunit," <i>Cell</i> 103:1143-1154.
5.		Carter, A. P. et al. (2000). "Functional Insights from the Structure of the 30S Ribosomal Subunit and its Interactions with Antibiotics," <i>Nature</i> 407:340-348.
		Clemons, W. M. et al. (2001). "Crystal Structure of the 30S Ribosomal Subunit from Thermus Thermophilus: Purification, Crystallization and Structure Determination," <i>J. Mol. Biol.</i> 310:827-843.
	6.	Collaborative Computational Project 4 (1994). "The CCP4 Suite: Programs for Protein Crystallography," <i>Acta Cryst.</i> D50:760-763.
7.		Davies, C. et al. (1998). "The Crystal Structure of Ribosomal Protein S4 Reveals a Two-Domain Molecule with an Extensive RNA-Binding Surface: One Domain Shows Structural Homology to the ETS DNA-Binding Motif," <i>EMBO. J.</i> 17:4545-4558.
	8.	De la Fortelle, E. and Bricogne, G. (1997). "Maximum-Likelihood Heavy-Atom Parameter Refinement for Multiple Isomorphous Replacement and Multiwavelength Anomalous Diffraction Mehods," <i>In Methods in Enzymology</i> , Carter, C. W., Jr. Sweet, R. M, eds. Academic Press, New York, 1997, pp. 472-494.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

For	m PTO-1	1449		Docket Number 529552000200	Application Number 09/905,212	
				(formerly 256602000600)		
INFORMATION DISCLOSURE OF A FIQUE			ON DISCLOSURE CATATION	Applicant Que C		
IN AN APPLICATION				Venkatramnan RAMAKRISHMAN et al.		
		(Us	e several sheets if necessary) JUN 1 4 20C2	Filing Date July 13, 2001	Group Art Unit 1645 U3 Character of the Critical Assessment of	
				Mailing Date June 10, 2002		
			Transmannie		95	
	. 9).	Dunbrack, R. L. et al (1997). "Meeting		n the Critical Assessment of	
Techniques for Protein Structure Pred Folding and Design 2(2):R27-R42.			Folding and Design 2(2):R27-R42.		· · · · · · · · · · · · · · · · · ·	
	1	10.	Gabashvili, I. S. et al. (1999). "Major I a Conformational Switch in 16S Ribos			
	1	11.	Golden, B. L. et al. (1993). "Ribosoma Structure by 1H- and 15N-NMR," Bio		of the Three-Dimensional	
,	1	12.	Goodford, P. J. (1985). "A Computation Binding Sites on Biologically Important			
	1	13.	Greer, J. et al. (1994). "Application of in Structure-Based Drug Design," J. of			
	1	14.	Helgstrand, M. et al. (1999). "Solution Thermophilus," J. Mol. Biol. 292:1071	Structure of the Ribosomal Protein S19 from Thermus -1081.		
	15. Hope, H. et al. (1989). "Cryocrystallog			graphy of Ribosomal Particles,"	Acta Cryst. B45:190-199.	
	Hüttenhofer, A. and Noller, H. F. (1992). "Hydroxyl Radical Cleavage of tRNA in the Ribosomal F Site," <i>Proc. Nat.1 Acad. Sci. USA</i> 89:7851-7855.				of tRNA in the Ribosomal P-	
	17. Jack, A. et al. (1976). "Crystallographic Refinement of Yeast Phenylalanine Transfer RNA at 2-5 Resolution," J. Mol. Biol 108:619-649.				lanine Transfer RNA at 2-5Å	
	Markus, M. A. et al. (1998). "The Solution Structure of Ribosomal Protein S4 Delta41 Reveals Subdomains and a Positively Charged Surface that May Interact with RNA," <i>EMBO J.</i> 17(16):4.4571.					
	1	19.	Moazed, D. and Noller, H. F. (1987). "Ribosomal RNA," Nature 337:389-394		Functional Sites in 16S	
	2	20.		6S rRNA Binding Site and Role of Conserved Nucleotides in 8 Recognition," Eur. J. Biochem. 215:787-792.		
	Mueller, F. and Brimacombe, R. (1997). "A New Model for the Three-Dimensional Folding of Escherichia Coli 16 S Ribosomal RNA. I. Fitting the RNA to a 3D Electron Microscopic Map at 2 Å," J. Mol. Biol. 271:524-544.					
	2	Nowotny, V. and Nierhaus, K. H. (1988). "Assembly of the 30S Subunit from Escherichia Coli Ribosomes Occurs via Two Assembly Domains which Are Initiated by S4 and S7," <i>Biochemistry</i> 27:7051-7055.				
	2	23.	Ogle, M. et al. (2001). "Recognition of Cognate Transfer RNA by the 30S Ribosomal Subunit," Research Articles 292:897-902.			
]	24.	Pioletti, M. et al. (2001). "Crystal Stru Tetracycline, Edeine and IF3," <i>EMBC</i>		all Ribosomal Subunit with	
F	EXAMINER: DATE CONSIDERED: 5/2/0					
—	TXAMINE		al if citation considered, whether or not the citation	on conforms with MPEP 609 Draw a l		

conformance and not considered. Include a copy of this form with next communication to applicant.



6.54.		Y '	5	PTO/SB/08 (2-92) Sheet 3 of 3
Form PT	O-1449		Docket Number 529552000200	Application Number 09/905,212
			(formerly 256602000600) Applicant Venkatramnan R.	AMAKRISHMAN et al. Cy
	(U	Use several sheets if necessary) JUN 1 4 20C2	Filing Date July 13, 2001 Mailing Date June 10, 2002	Group Art Unit 1645
		TRADEMARK		
ar	25.	Prince, J. B. et al. (1982). "Covalent C Site: Identification of Crosslinked Res		
	26.	Rich, A. and RajBhandary, U. L. (197 Properties," <i>In</i> Annual Reviews of Bio Alto, CA. pp. 805-860.		
	27.	Rose, S. J. III et al. (1983). "Binding of Ribosomes," <i>J. Mol. Biol.</i> 167:103-11		Arm to Escherichia Coli 30S
	28.	Schluenzen, F. et al. (2000). "Structure Resolution," Cell 102:615-623.	e of Functionally Activated Sn	nall Ribosomal Subunit at 3.3 Å
	29.	Tanaka, I. et al. (1998). "Matching the Three-Dimensional Model of the 16S		
	30.	Urlaub, H. et al. (1997). "Identification Proteins and rRNA in Escherichia Collaboration-Mass Special Chem. 272:14547-14555.	i 30 S Subunits by a New App	roach Using Matrix-Assisted
	31.	VanLoock, M. S. et al. (1999). "Major Ribosomal RNA Decoding Site," J. M		/mRNA Complex to the 16S

von Ahsen, U. and Noller, H. F. (1995). "Identification of Bases in 16S rRNA Essential for tRNA

Walter, W. P. et al. (1998). "Virtual Screening - An Overview," Drug Delivery Today 3(4):160-178.

Wu, H. et al. (1993). "The Binding Site for Ribosomal Protein S8 in 16S rRNA and spc mRNA from Escherichia Coli: Minimum Structural Requirements and the Effects of Single Bulged Bases on S8-

Binding at the 30S Ribosomal P-Site," Science 267:234-237.

RNA Interaction," Nucleic Acids Res. 22(9):1687-1695.

EXAMINER:

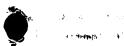
32.

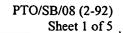
33. 34.

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.







Form PTO-1449				Docket Number 2566020	Docket Number 256602000600		nber 09/905,212
INFORMATION DISCLOSURE CITATION				Applicant	1		
E VOIN AN APPLICATION					nkatraman RAM	AKRISHNAN et a	0 111
A) se several sheets if necessary)			Filing Date July 13, 2001		Group Art Unit	1887 Munkat	
10	5 Dar	2		Mailing Date January 30,	2002		
, EFB	35					A	**
COUNT	A TRACE					E	2 C
-			U.S. PAT	ENT DOCUMENTS		- Ca	10 M
Examiner Initials	Ref. No.	Date .	Document No.	Name	Class	Subclass	Filing Date If Appropriate
							65 5 O
							100
			FOREIGN P	ATENT DOCUMENT	ΓS		
Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
			Ü				
			OTHE	R DOCUMENTS	UMENTS (including author, title, Date, Pertinent Pages, Etc.)		
Examiner Initials	Ref. No.	Title					
coe	1.			duction in Phase Refiner n," Acta Cryst D53:371-		dified Interfer	ence Functions:
	2.		C. et al. (2000). "Strentral Domain," Scien	ructure of the S15, S6, S3 ace 288:107-112.	18-rRNA Co	omplex: Asser	nbly of the 30S
	3.		K. et al. (1961). "Pact Antimicrob Agents Ci	amycin, A New Antitum hemother 184-190.	or Antibioti	c: Discovery	and Biological
	4.		al. (1979). "Ribosoma ibosomes," FEBS Lea	l Ambiguity (Ram) Mut	ations Facili	tate Diyhydro	ostreptomycin
	5.	Brink, M. F.	et al. (1994). "Specti , Thereby Potentially	nomycin Interacts Special Freezing This Molecule			
	6.	Brown, C. M. et al. (1993). "Two Regions of the Escherichia Coli 16S Ribosomal RNA Are Important for Decoding Stop Signals in Polypeptide Chain Termination," Nucleic Acids Res 21(9):2109-2115.					
	7.	Brünger, A. T. et al. (1998)."Crystallography and NMR System: A New Software Suite for Macromolecular Structure Determination," <i>Acta Cryst</i> . D54:905-921.					
	8.	Cabanas, M. J. et al. (1978). "Inhibition of Ribosomal Translocation by Aminoglycoside Antibiotics," Biochem Biophys Res Commun 83(3):991-997.					
	9.	Carter, A. P. et al. (2000). "Functional Insights from The Structure of the 30S Ribosomal Subunit and its Interactions with Antibiotics," <i>Nature</i> 407:340-348.					
EXAMI	NER:	Olon	7	DATE CONSI	DERED:	5/21/0	3
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in							

PTO/SB/080-92 Shee 2 of S

Form PTO-1449			Docket Number 256602000600	Application Number 09/905/212		
INFORMATION DISCLOSURE CITATION			Applicant	8 8 M		
DE JO IN AN APPLICATION			Venkatraman RAM	AKRISHNAN et al.		
	Car.	(Use several sheets if necessary)	Filing Date July 13, 2001	Group Art Unit 1645		
,	122001		Mailing Date January 30, 2002	90%		
KB is				G.		
cirt	ENT & TRI CLESS	Cate, J. H. et al. (1999). "X-Ray Crys Science 285:2095-2104.	ystal Structures of 70S Ribosome Functional Complexes,"			
	11.	Chopra, I. et al. (1992). "Tetracyclines 29:245-277.	s, Molecular and Clinical Aspect	s," J. Antimicrob Chemother		
	12.	Clemons, Jr. W. M. et al. (1999). "Str Resolution," <i>Nature</i> 400:833-840.	ucture of a Bacterial 30S Riboso	omal Subunit at 5.5 Å		
	13.	Cohen, L. B. et al. (1969). "Inhibition the 30S Ribosomal Subunit," Biochem		of Protein Synthesis. Effect on		
	14.	Cowtan, K. and Main, P. (1998). "Mis 54:487-493.	cellaneous Algorithms for Dens	ity Modification," Acta Cryst.		
	15.	Donner, D. and Kurland, C. G. (1972) Ribosomal Protein S4 of Escherichia G				
	16.	Egebjerg, J. and Garrett, R. A. (1991). on Ribosomal RNAs," <i>Biochimie</i> 73:1). "Binding Sites of the Antibiotics Pactamycin and Celesticetin 1145-1149.			
	17.	Eustice, D. C and Wilhelm, J. M. (198 Eucaryotic Protein Synthesis," Antimic	84). "Mechanisms of Action of Aminoglycoside Antibiotics in icrob Agents Chemother 26(1):53-60.			
	18.	Eustice, D. C. and Wilhelm, J. M. (19) Interference by Aminoglycoside Antib	984). "Fidelity of the Eukaryotic Codon-Anticodon Interaction: ibiotics," <i>Biochemistry</i> 23:1462-1467.			
	19.	Fourmy, D. et al. (1996). "Structure of Complexed with an Aminoglycoside A	of the A Site of Escherichia Coli 16S Ribosomal RNA Antibiotic," Science 274:1367-1371.			
14	20.	Funatsu, G. and Wittmann, H. G. (197 Isolated from Escherichia Coli Mutant				
	21.		1 Proteins. XXXI. Comparative Studies on Altered Proteins S4 of Streptomycin Dependence," <i>Mol Gen Genet</i> 115:131-139.			
	22.		Ribosome. Structure, Function, Antibiotics and Cellular n DC. pp. v-viii (Table of Contents Only).			
	23.	Geigenmüller, U. and Nierhaus, K. H. Ribosomal P Site as Well as to the A	I. (1986). "Tetracycline Can Inhibit tRNA Binding to the Site," Eur J. Biochem 161:723-726.			
	24.	Glotz, C. et al. (1988). "Three Dimens Archaeobacteria," Biochem Int. 15(5):		d Their Subunits from eu and		
	25.		Gonzales, A. et al. (1978). "Studies on The Mode of Action of Hygromycin B, An Inhibitor of Translocation in Eukaryotes," <i>Biochim Biophys Act</i> a 521:459-469.			
	26.	Gravel, M. et al. (1987). "Cross-Linki Coli," Biochemistry 26:6227-6232.	ng of Streptomychin to the 16S	Ribosomal RNA of Escherichia		
27. Hartmann, R. K. and Erdmann, V. A. (1 from any Isolated Transcription Unit," J.				s 16S rRNA is Transcribed		
E	EXAMINER:	dre	DATE CONSIDERED: 5/21/03			
	EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.					

Application Number 09/905,2 Docket Number 256602000600 Form PTO-1449 Applicant INFORMATION DISCLOSURE CITATION Venkatraman RAMAKRISHNAN et al. IN AN APPLICATION Filing Date July 13, 2001 Group Art Unit 1645 (Use several sheets if necessary) Mailing Date January 30, 2002 Ito, T. and Wittmann, H. G. (1973). "Amino Acid Replacements in Proteins S5 and S12 of Two Escherichia Coli Revertants from Streptomycin Dependence to Independence," Mol. Gen. Genet, 127:19-32. 29. Jones, T. A et al. (1991). "Improved Methods for Building Protein Models in Electron Density Maps and the Location of Errors in these Models," Acta. Cryst. A47: 110-119. Jones, T. A. & Kjeldgaard, M. (1997). "Electron-Density Map Interpretation" Meth. Enzymol 30. 277B:173-207. Kolesnikov, I. V. et al. (1996). "Tetrycyclines Induce Changes in Accessibility of Ribosomal 31. Proteins to Proteases," Biochimie 78:868-873. 32. Kurland, C. G. et al. (1996). "Limitations of Translational Accuracy" Chapter 65 In Escherichia Coli and Salmonella, Cellular and Molecular Biology, Second Edition, Volume 2, Neidhart, F. C. et al., eds. American Society for Microbiology Press, Washington D.C., pp. 979-1004. Includes Table of Contents. Leclerc, D. et al. (1991). "Mutations in the 915 Region of Escherichia Coli 16S Ribosomal RNA 33. Reduce the Binding of Streptomycin to the Ribosome," Nucleic Acids Res. 19(14):3973-3977. Lodmell, J. S. and Dahlberg, A. E. (1997). "A Conformational Switch in Escherichia Coli 16S 34. Ribosomal RNA During Decoding of Messenger RNA," Science, 277:1262-1267. Manavathu, E. K. et al. (1990). "Molecular Studies on the Mechanism of Tetracycline Resistance 35. Mediated by Tet(O)," Antimicrob Agents Chemother 34(1):71-77. Mann, R. L. and Bromer, W. W. (1958). "The Isolation of a Second Antibiotic from Streptomyces 36. Hygroscopicus," J. Am. Chem. Soc. 80:2714-2716. Melancon, P. et al. (1984). "Cross-Lining of Streptomycin to the 30S Subunit of Escherichia Coli 37. with Phenyldiglyoxal," Biochemistry 23:6697-6703. Melancon, P. et al. (1988). "A Mutation in the 530 Loop of Escherichia Coli 16S Ribosomal RNA 38. Causes Resistance to Streptomycin," Nucleic Acids Res 16:9631-9339. Moazed, D. and Noller, H. F. (1987). "Interaction of Antibiotics with Functional Sites in 16S 39. Ribosomal RNA," Nature 327:389-394. 40. Moazed, D. and Noller, H. F. (1990). "Binding of tRNA to the Ribosomal A and P-sites Protects Two Distinct Sets of Nucleotides in 16 S rRNA," J. Mol. Biol. 211:135-145. Montadon, P. E. et al. (1985). "Streptomycin-Resistance of Euglena Gracilis Chloroplasts: 41. Identification of a Point Mutation in the 16S rRNA Gene in an Invariant Position," Nucleic Acids Res. 13(12):4299-4310. Montandon, P. E. et al. (1986). "E. Coli Ribosomes with a C912 to U Base Change in the 16s rRNA 42. are Streptomycin Resistant," EMBO J. 5(3):3705-3708. Mueller, F. and Brimacombe, R. (1997). "A New Model for the Three-Dimensional Folding of 43. Escherichia Coli 16 S Ribosomal RNA. to a 3D Electron Microscopic map at 20Å," J. Mol Biol. 271:524-544. DATE CONSIDERED: **EXAMINER:**

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy f this form with next communication to applicant.

Form PTO-1449			Docket Number 230002000000	Application Number 09/30/1212	
INFORMATION DISCLOSURE CITATION			Applicant		
IN AN APPLICATION			Venkatraman RAM	IAKRISHNAN et al.	
1	PE	se several sheets if necessary)	Filing Date July 13, 2001	Group Art Unit 1645 1631	
FER	1 2 2002		Mailing Date January 30, 2002	September 1	
5					
COL.	44. st	Oehler, R. et al. (1997). "Interaction of RNA of Escherichia Coli," Nucleic Ac		incorporation into Ribosomal	
	45.	Pape, T. et al. (2000). "Conformational Switch in the Decoding Region of 16s rRNA During Aminoacyl-tRNA Selection on the Ribosome," <i>Nat. Struct. Biol.</i> 7:104-107.			
	46.	Pinard, R. et al. (1993). "The 5' Proxi Streptomycin to the Ribosome", FASE		ved in the Binding of	
	47.	Powers, T. and Noller, H. F. "A Function 2214.	tional Pseudoknot in 16S Riboso	omal RNA," <i>Embo J.</i> 10:2203-	
	48.	Ross, J. I. et al. (1998). "16S rRNA M Positive Bacterium," Antimicob Agent		cline Resistance in a Gram-	
	49.	Spahn, C. M. and Prescott, C. D. (1996) Translation Apparatus," J. Mol Med 74		Works: Antibiotics and the	
	50.	Spangler, E. A. and Blackburn, E. H. (1985). "The Nucleotide Sequence of the 17S Ribosomal RNA Gene of Tetrahymena Thermophila and the Identification of Point Mutations Resulting in Resistance to the Antibiotics Paromomycin and Hygromycin," J. Biol. Chem. 260(10):6334-6340.			
	51.	Tejedor, R. et al. (1985). "Photoaffinity Labeling of the Pactamycin Binding Site on Eubacterial Ribosomes," <i>Biochemistry</i> 24:3667-3672.			
	52.	Terwilliger, T. and Berendzen, J. (1999). "Automated MAD and MIR Structure Solution," <i>Acta Cryst</i> . D55:849-861.			
	53.	Timms, A. R. and Bridges, B.A. (1993). "Double, Independent Mutational Events in the rpsL Gene of Escherichia Coli: and Example of Hypermutability," <i>Mol. Microbiol.</i> 9:335-342.			
	54.	Timms, A. R. et al. (1992). "Mutant Sequences in the rpsL Gene of Eschrichia Coli B/r: Mechanistic Implications for Spontaneous and Ultraviolet Light Mutagenesis," <i>Mol Gen Genet</i> 232:89-96.			
	55.	Tocilj, A. et al. (1999). "The Small Resolution: pattern Fittings and the Ide 96:14252-14257.			
	56.	Trakhanov, S. D. et al. (1987). "Cryta Thermus Thermophilus," FEBS Letter		30S Ribosomal Subunits from	
	57.	Tubulekas, I. et al. (1991). "Mutant Ribosomes Can Generate Dominant Kirromycin Resistance," J. Bacteriol. 173(12):3635-3643.			
	58.	van Acken, U. (1975). "Proteinchemical Studies on Ribosomal Proteins S4 and S12 from Ram (Ribosomal Ambiguity) Mutants of Escherichia Coli," <i>Mol Gen Genet</i> . 140:61-68.			
	59.	von Böhlen, K. et al. (1991). "Characterization and Preliminary Attempts for Derivatization of Crystals of Large Ribosomal Subunits from Haloarcula Marismortui Diffracting to 3 Å Resolution," J. Mol. Biol. 222:11-15.			
	60.	Wimberly, B. T. et al. (2000). "Structure of the 30S Ribosomal Subunit," Nature 407:327-339.			
EXA	AMINER:	Clina	DATE CONSIDERED:		
EXA	MINER: Initi	al if citation considered, whether or not the citati	on conforms with MPEP 609. Draw a	line through the citation if not in	

c nformance and not considered. Include a copy of this form with next communication t applicant.

PTO/SB/08 (2) Sheet 5 of

Form PTO-1	449		Docket Number 256602000600	Application Number 09/905,212		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION			Applicant Venkatraman RAMAKRISHNAN et al.			
10120 NUM	(Use	e several sheets if necessary)	Filing Date July 13, 2001	Group Art Unit 1645		
			Mailing Date January 30, 2002	02		
دع د	ar.			€ C		
CON EE 6		Wittmann-Liebold, B. and Greuer, B. (1978). "The Primary Structure of Protein S5 from the Small Subunit of the Escherichia Coli Ribosome," FEBS Letters 95:91-98.				
8	2.	Woodcock, J. et al. (1991). "Interaction of Antibiotics with A- and P-Site-Specific Bases in 16S Ribosomal RNA," <i>EMBO J.</i> 10:3099-3103.				
6	3.	Yonath, A. et al. (1988). "Characterization of Crystals of Small Ribosomal Subunits," J. Mol. Biol. 203:831-834.				
6	4.	Yonath, A. et al. (1998). "Crystallographic Studies on the Ribosome, A Large Macromolecular Assembly Exhibiting Severe Nonisomorphism, Extreme Beam Sensitivity and No Internal Symmetry," Acta Cryst. A54: 945-955.				
6	5.	Yoshizawa, S. et al. (1999). "Recognition of the Codon-Anticodon Helix by Ribosomal RNA," Science 285:1722-1725.				
6	6.	Yusupov, M. M. et al. (1988). "M. B. A: New Crystalline Form of 30S Ribosomal Subunits from Thermus Thermophilus," FEBS Letters 238:113-115.				
6	7.	Zierhut, G. et al. (1979). "Comparative Analysis of the Effect of Aminoglycosides on Bacterial Protein Synthesis In Vitro," Eur. J. Biochem. 98:577-583.				

EXAMINER: DATE CONSIDERED: 5/240

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

100 AU 1449 U.S. Department of Commerce Attorney Docket No. Serial No. Patent and Trademark Office 22620/2012 09/905,212 SUPPLEMENTAL INFORMATION DISCLOSURE **STATEMENT** Applicant(s):. Ramakrishnan, et al. Filing Date: July 13, 2001 Group: 1645 1631 U.S. PATENT DOCUMENTS Examiner Patent No. Date Name Class Subclass Filing Date Initial (if appropriate) FOREIGN PATENT DOCUMENTS Examiner Document No. Publication Country Class Subclass Translation Initial Date YES NO OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.) cac Otwinowski and Minor (1997). "Processing of X-Ray Diffraction Data Collected in Oscillation Mode," 1. Methods in Enzymology 276:307-326. DATE CONSIDERED **EXAMINER** *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with

**Copies of references not provided at the time of this submission

RECEIVED

NOV 1 4 2002

TECH CENTER 1600/2900